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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	
09/495,668	02/01/0	O SELIFONOV	s	3271.002US1	
-		HM12/0825		EXAMINER	
Majestic.	Parsons. S	KIM,	Y		
	Majestic, Parsons, Siebert & Hsue F.C. Four Embarcadero Center			PAPER NUMBER	
	Suite 1100 San Francisco CA 94111-4106		1631	. 5	
			DATE MAILED	: 08/25/00	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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	Application No.	Applicant(s)	
Office Action Summan	09/495,668	SELIFONOV ET AL.	
Office Action Summary	Examiner	Art Unit	
	Young J. Kim	1631	
The MAILING DATE of this communication appe Period for Reply	ars on the cover sheet with the co	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.	' IS SET TO EXPIRE 3 MONTH	(S) FROM	
 Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days be considered timely. If NO period for reply is specified above, the maximum statutory communication. Failure to reply within the set or extended period for reply will, by Status 	cation. s, a reply within the statutory minimum o period will apply and will expire SIX (6)	of thirty (30) days will MONTHS from the mailing date of this	
1) Responsive to communication(s) filed on	<u></u> •		
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under <i>t</i>			
Application of Claims 4) Claim(s) 1-44 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 17-26 and 29-44 is/are allowed. 6) Claim(s) 1-16,27 and 28 is/are rejected. 7) Claim(s) 1, 15-16 is/are objected to. 8) Claims are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are objected to	wn from consideration. election requirement.		
11) The proposed drawing correction filed on	_ is: a) ☐ approved b) ☐ disap	proved.	
12) The oath or declaration is objected to by the Ex	aminer.		
Priority under 35 U.S.C. § 119 13) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of the CERTIFI 1. received. 2. received in Application No. (Series Code 3. received in this National Stage applicatio * See the attached detailed Office action for a list of the Series Acknowledgement is made of a claim for domestic the series of the series	ED copies of the priority docume e / Serial Number) n from the International Bureau of the certified copies not receive	ents have been: (PCT Rule 17.2(a)).	
Attachment(s)			
5) Notice of References Cited (PTO-892) 6) Notice of Draftsperson's Patent Drawing Review (PTO-948) 7) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	19) 🔲 Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152) Compliance Notice .	

Art Unit: 1631

DETAILED ACTION

The Group and/or Art Unit location of your application in the PTO has been assigned to Art Unit 1631. All further correspondence regarding this application should be directed to Group Art Unit 1631.

Specification

The specification is objected to by the Examiner because it makes reference to an URL on the internet. For example, line 24 of page 14, lines 5-12, page 37 contains web-address.

While information on web-address is accessible, the embedded hyperlinks and/or other forms of browser-executable code are impermissible and require deletion. The attempt to incorporate subject matter into the patent application by reference to a hyperlink and/or other forms of browser-executable code is considered to be an improper incorporation by reference. See MPEP 608.01(p), paragraph I regarding incorporation by reference.

If the subject matter which is improperly incorporated by reference is directed to nonessential material (illustrating the state of the art), the deletion will probably not be considered as new matter. However, if the subject matter which is improperly incorporated by reference is directed to essential material, applicant will be required to amend the specification to include the subject matter incorporated. The amendment must be accompanied by an affidavit or declaration executed by the applicant stating that the amendatory material consists of the same material incorporated by reference.

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The specification fails to comply with the Sequence Rules as set forth in 37 CFR 1.821 through 1.825. The specification contains a nucleic acids sequence which is more than 10 nucleotides long in line 7, page 22. (See the attached Sequence Compliance Notice).

Claim Objections

Claims 1 and 15-16 are objected to because of the following informalities: Claim 1 recites a grammatically incorrect phrase, "encoding two or more a biological molecules into character strings" [emphasis added]. Claim 15 and 16 contains a period in the middle of the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-16 and 27-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-16 are indefinite for the recitation of the term "subunits." It is unclear whether the subunits mean each letter corresponding to the nucleotides of a nucleic acid or a length of bytes required for the character string.

Claim 6 is indefinite for the recitation of the phrase, "biological molecules have at least 30% sequence identity." It is unclear to what the biological molecules are compared to in determining the sequence identity.

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Claims 27-28 recite the limitation "said method." There is insufficient antecedent basis for this limitation in the claim.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yokomori et al., (1993) disclose a simple string similarity measure to analyze molecular evolution. Yokomori et al., however, do not teach or suggest a method of concatenation of two random strings which represent biological molecules to derive a product string, ultimately resulting in mimicking of molecular evolutionary process.

Inquiries

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Young J. Kim whose telephone number is (703) 308-9348. The Examiner can normally be reached from 8:30 a.m. to 6:00 p.m. on weekdays. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Michael Woodward, can be reached at (703) 308-4028. Papers related to this application may be submitted to Art Unit 1631by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If applicant does submit a paper by FAX, the original copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office. The Fax number is (703) 308-0294. Please call the Examiner at (703) 308-9348 before the transmission to expedite delivery of the fax. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Young J. Kim

08/11/00

JOHN S. BRUSCA, PH.D PRIMARY EXAMINER

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NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
5. The computer readable form that has been filed with this application has been found to be damage and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
7. Other:
•
Applicant Must Provide:
An <u>initial</u> or substitute computer readable form (CRF) copy of the "Sequence Listing".
An <u>initial</u> or substitute paper copy of the "Sequence Listing", as well as an amendment directing its er into the specification.
A statement that the content of the paper and computer readable copies are the same and, who applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
For questions regarding compliance to these requirements, please contact:
For Rules Interpretation, call (703) 308-4216 For CRF Submission Help, call (703) 308-4212

For Patentin software help, call (703) 308-6856